Cummins QC Configurator
User's Manual

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WELCOME

We thank you for purchasing Cummins' QUICKCHECK™ III datalink reader for Heavy-duty and Industrial vehicle and diesel engine applications. It is our hope that this device, coupled with your Palm™ handheld organizer, will add value to your already valuable Cummins engine by giving you the ability to read engine and vehicle subsystem information quickly and conveniently[1]. The QC Configurator program is an add-on application that enhances the capability to analyze a vehicle's performance.

The QUICKCHECK III adapter communicates with the engine ECM (electronic control module) component, as well as other vehicle subsystem components that broadcast on the SAE J1939 or J1587 datalinks. QC Configurator and QUICKCHECK III have limited functionality compared to INSITE™, but offer the advantage of a more portable, affordable, and convenient tool for basic engine and vehicle subsystem diagnostics.

QC Configurator functions with QUICKCHECK III on a wide range of Palm computing devices— Palm M500™, M505™, M515™, I705™, and Tungsten T™. For convenience, this manual refers to all Palm computing devices as *handheld organizers*, *handheld devices*, or simply *handhelds* or *organizers,* without including the Palm name or model.

To operate the QUICKCHECK III datalink reader, your handheld organizer requires version 3.3 or higher of the Palm HotSync® synchronization technology software. If your software does not comply with the above requirement, update it to the latest version without cost at the Palm web site: http://www.palm.com.

These are the minimum requirements for your computer system to synchronize with a Palm handheld organizer as listed in the Palm computing device *Handbook:*

- IBM-compatible Pentium-class class computer
- Windows 98/Me/2000/XP (Windows 95/NT operating systems require a serial cradle, sold separately)
- 16 MB RAM (64 MB recommended with Windows 2000)
- 30 MB available hard disk space
- VGA monitor or better (256 color video display)
- CD-ROM drive (you can also download the Palm Desktop software from http://www.palm.com)
- Mouse
- One USB port or available serial port with the organizer cradle plugged in (serial cradle sold separately)

CAUTION: Use QC Configurator and QUICKCHECK III only when the vehicle is stationary.

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[1] QUICKCHECK III is designed to work with any vehicle or engine that supports the standard SAE J1587 and J1939 datalinks. For simplicity, this document only refers to the *engine* or *vehicle subsystem* when discussing QUICKCHECK III features and capabilities. Please *note* that not all QUICKCHECK III functionality is available when reading data from non-Cummins engines and vehicle subsystems.

INSTALLATION

The QC Configurator installation is a typical Windows, self-extracting installation. It sets up the application for the handheld organizer.

The QC Configurator software installation instructions are listed below. The following steps assume that you have already installed the handheld Desktop software. If you have not installed this software, see the handheld handbook for instructions on installing the Desktop software.

1. Insert the QUICKCHECK III CD-ROM[2] into your computer.
2. Click on the Windows Start menu and click *Run*.
3. Type *e:QC3 Setup.exe*, where *e:* is the letter assigned to the CD-ROM drive.
4. Follow the onscreen instructions to complete the installation. Installation places all needed PC components into the root directory for the handheld organizer (typically `C:\palm`). However, QuickCheck III and QC Configurator components are placed in the `\qc3` directory immediately below the Palm root directory.
5. Perform a HotSync operation to install the QuickCheck III and QuickCheck Configurator applications on the handheld organizer.[2]

APPLICATION

The QC Configurator application is an independent product that runs on the Palm handheld products in conjunction with the QUICKCHECK III software. QC Configurator is **NOT** compatible with the original QUICKCHECK product. The QC Configurator program allows you to configure QUICKCHECK III to read and capture desired engine and subsystem data from your diesel-powered vehicle. This data includes equipment identification information, fault information, and current operating parameters.

The basic concept for the QC Configurator is that it provides the user with the flexibility to add parameters to the QUICKCHECK III Monitor screen, beyond those defined by the default list of the QUICKCHECK III software. QC Configurator also enables QUICKCHECK III to read faults and component ID information from a selected vehicle subsystem. Users may select or deselect any available parameters, as well as change the subsystem source of each parameter. This list is still limited in that it does not include every available SAE parameter, but it does allow a broad range of parameters to be viewed.

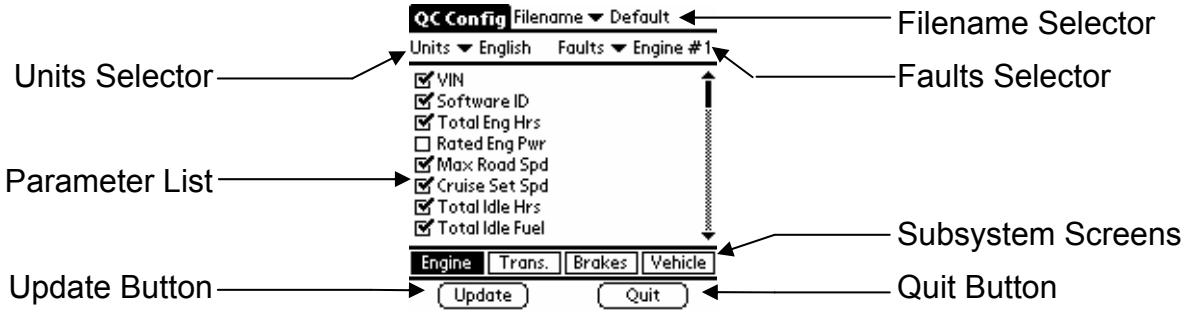
[2] In the event the *QC3 Setup.exe* installation file was obtained by a different means (e.g., the Internet), simply specify the source file and location in Step 3 using the Browse button, rather than specifying the compact disk drive of your computer.

Activating QC Configurator

Once installation is complete, the QC Configurator application icon depicted at the right appears in the handheld organizer's application launcher. Tap the icon to launch the QC Configurator application.

Display Screen

Once the QC Configurator icon is tapped, the below Display screen appears. This is considered to be the main screen. The Display screen contains several screen objects, each pointed out in the picture below and described in the paragraphs that follow.



Filename Selector

This label is the file name of the current open configuration file. Upon application start-up, the *Default* list will be opened. The *Default* configuration list is the same as the base QUICKCHECK III settings. Using the Filename selector pop-up box or the menu to open another list can change the filename list viewed.

Parameter List

The parameter list table has a much larger set of parameters to choose from than the subset of base parameters that are available with the stand-alone QUICKCHECK III application. The parameter list does **NOT** contain all of the available SAE parameters on the J1587 or J1939 datalinks. The parameter list has two columns. The left column has checkboxes, which are used to select or deselect a parameter; located in the right column are the parameter names. Changing a parameter's subsystem source address and viewing a detailed parameter description are possible by tapping the row of the desired parameter, as described later. *Note* that a maximum of 35 QC Configurator parameters can be configured to be displayed on the QUICKCHECK III Monitor screen.

Faults Selector

The *Faults* selector controls the faults displayed on the QUICKCHECK III *Fault Screen*. The Default list configuration is set to view the faults from Engine #1. In order to view the faults from a different subsystem, such as a Transmission or Brakes, tap the *Faults* selector pull-down list to select that subsystem. *Note* that component ID information (i.e., Make, Model, and Serial No.) will also appear at the bottom of the QuickCheck III

Equipment screen when selecting a subsystem other than Engine #1 to read faults (Engine #1 component ID information always appears near the top of the QUICKCHECK III Equipment screen).

Units Selector

The *Units* selector has two options: English or Metric. Tapping this pull-down list allows changing the units that are displayed by QUICKCHECK III for **ALL** parameters.

Subsystem Screens

The subsystem screens can be navigated through by use of the four buttons located near the bottom of the screen, labeled: *Engine*, *Trans.*, *Brakes*, and *Vehicle*. Each button has associated with it a number of parameters that pertain to that label. For example, parameters associated with a transmission will be found on the *Trans.* screen.

Update Button

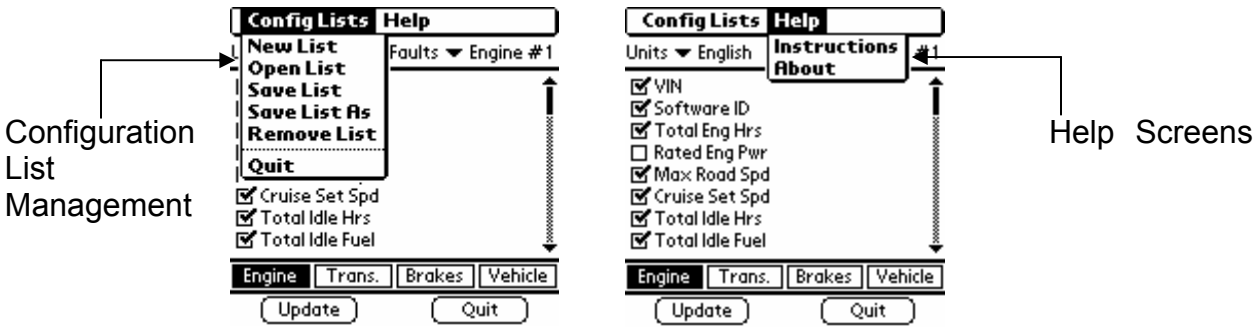
This button is used to save a new configuration and functions the same as the *Save List* menu option discussed later. If changes were made to the Default list, then a pop-up box will appear and prompt for a new file name. If the changes were made to a user-defined list, then tapping the *Update* button will cause QC Configurator to overwrite the old configuration. If the user wants to create a new configuration list that is based on a prior user-defined list, the *Save List As* menu option (discussed later) should be used. Tapping the *Update* button or performing any saving operation also modifies the QUICKCHECK III databases, so that after the new configuration is saved, the next launch of the QUICKCHECK III application will display the new parameters.

Quit Button

Tapping the Quit button closes the QC Configurator application without saving any changes.

Menu Options

The drop-down menu contains several options, each pointed out in the pictures below and described in the paragraphs that follow.



Configuration List Management

The options in the Config Lists menu handle the configurations file structure. A brief description of each option follows.

New List – Disregards any changes made and reloads the Default list into the Parameter list table.

Open List – Opens a pop-up list box with all stored configurations. Once a file name has been selected, the configuration is loaded into the Parameter list table.

Save List – Operates the same as the *Update* button. If a modified Default list is currently open, then selecting *Save List* will cause a pop-up box to be displayed to *Save As* a new file name. If the new configuration had already been saved under a user-defined name, then the old configuration is overwritten with the new changes for that file. QC Configurator has the ability to save 15 different configurations.

Save List As – Saves the current configuration under a different file name.

Remove List – Deletes a configuration from the handheld device.

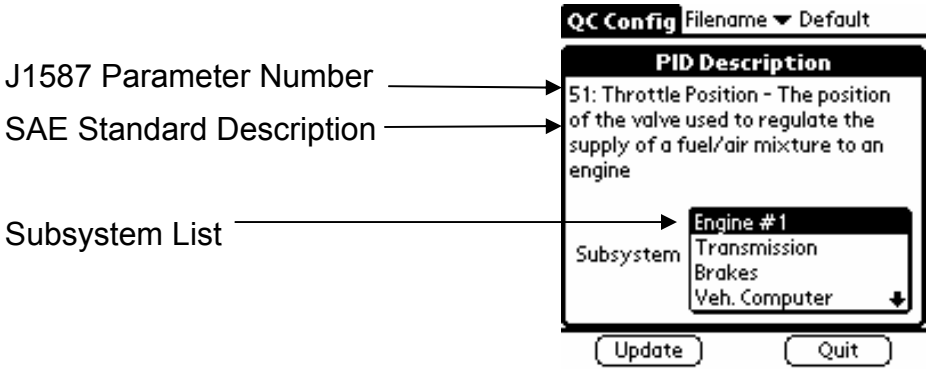
Quit – Performs the same operation as the *Quit* button: exits the program without saving any changes.

Help Screens

Selecting one of the Help menu items will open a dialog box containing the appropriate information for the item selected. The *About* screen gives QC Configurator version information, while the *Instructions* screen (described in more detail later) provides brief descriptions of how to utilize various QC Configurator functions.

Parameter Identifier Description Screen

In order to view the Parameter Identifier (PID) Description screen, tap the row of the desired parameter. The Description screen contains several screen objects, each pointed out in the picture below and described in the paragraphs that follow.



J1587 Parameter Number

This is the SAE J1587 defined Parameter Identifier (PID) number. This number is for reference purposes only; it does **NOT** mean that this parameter is only available on J1587. All QC Configurator parameters are SAE-defined for both the J1587 and J1939 datalinks.

SAE Standard Description

This is based on the SAE-defined description of the parameter.

Subsystem List

This pop-up list contains subsystems for which a parameter may be broadcast from[3]. In order to change the subsystem source of a parameter, tap the *Subsystem* pop-up list, select the desired subsystem, and save any changes you have made after you have completed them to update the QUICKCHECK III databases with the new configuration. The application will read from the selected subsystems for each parameter configured on whichever datalink you are connected to. *Note* that the combination of the faults subsystem and parameter subsystems you can configure with the QC Configurator program is limited to a maximum of 3. If you select more subsystems than that for a configuration, you must remove one or more subsystems from your configuration; otherwise, QUICKCHECK III will not properly read some of the messages you have just tried to configure it to read.

Instructions Screen

The *Instructions* screen from the *Help* menu provides some basic tips on using the QC Configurator application, such as typical actions that are required to create a configuration or make changes to an existing one. To view the *Instructions* screen, navigate through the menu to the *Help* tab and tap *Instructions*. This will display a window with a scrollbar to maneuver through the *Instructions* text.

[3] A parameter may not be broadcast from every subsystem listed. Even the more common engine or vehicle subsystem parameters may be supported on some subsystem makes and models, but not on others. If a given parameter is always displayed as "Unavailable" on QuickCheck III, even after trying all the various subsystems as sources for that parameter, you may wish to contact the manufacturer of the subsystem to see why they don't support that parameter for that particular subsystem model and if they have any plans to do so.

BASIC TUTORIAL

This section describes a typical configuration session. It begins with creating a configuration, setting the units, and finally, saving the configuration. This tutorial assumes the user is familiar with the Palm computing handheld organizer standard operations.

Step 1: Selecting Parameters and Faults

First, launch the QC Configurator application by tapping the icon. QC Configurator will open to the default configuration list, which is the standard set of parameters for the QUICKCHECK III application. To create a custom configuration, begin by tapping the checkboxes of the desired parameters. If you would like to re-configure a previously saved list, first open the list by using the *Open List* menu command or the *Filename* selector and make your changes to the parameters checked off on the list, their subsystem source, and the subsystem source for the *Faults* selector.

Step 2: Selecting Units

QC Configurator also allows the units of measure for the parameters to be changed between Metric and English. Simply use the *Units* selector control and select either the *English* or *Metric* option.

Step 3: Saving Lists

To save the changes to a new configuration, you have three choices: 1) use the *Save List As* menu option and create a new file name; 2) if you had opened a prior user-defined list, you can use the *Save List* menu option and QC Configurator will overwrite the old configuration; 3) tap the Update button and QC Configurator will handle list saving for you, prompting for a new file name if necessary.

Step 4: Exiting Program

After the "Saving…Please Wait" message is gone, you can quit the program, either by tapping the *Quit* button, using the *Quit menu* option, or tapping the Application key in the lower left area of your Palm handheld display to exit the program. When you subsequently bring up the QUICKCHECK III application, it will be configured with the changes you just saved using the QC Configurator.

APPENDIX A: FREQUENTLY ASKED QUESTIONS

Before contacting your local Cummins distributor for support, please experiment a bit to reproduce and isolate the problem. If you find it necessary to contact your distributor, please be ready to provide the following information:

- The version of the Windows operating system you are using on your PC
- The actual error message or state that you are experiencing
- The steps you take to reproduce the problem
- The version of organizer software you are using and available memory
- The version of QC Configurator software you are using
- The version of HotSync Manager you are using on your PC

To find Windows operating system version information:

1. Click the Start menu in the Windows system tray on the bottom left side of your computer screen in the Taskbar
2. Choose Settings, then click Control Panel
3. Double-Click System

To find organizer version and memory information:

1. Tap the application icon on the handheld organizer
2. Tap the menu button located on the handheld organizer
3. Tap App, and then tap info
4. Tap Version to see version numbers, and tap Size to see the amount of free memory, in kilobytes

To find QC CONFIGURATOR version information:

1. Tap the QC CONFIG application icon
2. Tap the menu button located on the handheld organizer
3. Tap Options
4. Tap About

To find HotSync Manager version information:

1. Click the HotSync Manager icon in the Windows system tray on the bottom right side of your computer screen in the Taskbar
2. Click About

Installation Problems

I'm having problems installing my Desktop organizer software.	• Review the Palm Handbook, including its Frequently Asked Questions. Use Palm Technical Support if needed.
I tried to install the QC Configurator software on my computer and it would not install.	• Verify that your computer and operating system meet the PC requirements identified ealier in this document. The QC Configurator software is not Mac-compatible. • HotSync Manager and the Palm Desktop software must be installed on your computer before QC Configurator software can be installed. If they are not installed on your computer, then insert the Palm Desktop CD-ROM into your computer and wait for the Installer Menu Screen. Click *INSTALL* and follow the instructions onscreen.
I am using Desktop organizer software other than the Palm Desktop software and my QC Configurator software would not install.	• Activate the Palm Desktop software, install the QC Configurator software, then activate the Desktop software that you use. The latest version of the Palm Desktop software can be downloaded without cost at the Palm web site: http://www.palm.com
I tried to install a new version of QC Configurator software and it would not install properly on my organizer.	• Delete the old version of software from the Palm organizer, then install the new version of software.

Application Problems

I tried to save a new configuration file and I got a "Too Many Sources!" error message.	• Eliminate as many parameter or faults subsystem sources as necessary to get down to a total combination of 3 or less.
I tried to save a new configuration file and I got a "Too Many Parameters!" error message.	• Eliminate as many checked off monitor parameters in your list as necessary to get down to a total of 35 or less. *Note* that all Trip and Equipment screen parameters, including "Rated Engine Power" (which appears on the Equipment screen of QuickCheck III), are not included in the 35 monitor parameters limit.
I tried to save a new configuration file and I got a "Too Many Configurations!" error message.	• To save any more configuration lists (there are a maximum of 15, in addition to the *Default* list), you must first delete one or more existing files, using the *Remove List* menu option.
After configuring a list of new parameters to be displayed by QuickCheck III, I notice that some of them always show as "Unavailable."	• These unavailable parameters are not being broadcast by whichever subsystem source they have been configured for by the QC Configurator program. Try changing to different subsystem sources for the unavailable parameters to see if it makes a difference. If it doesn't, this means that the electronic control module for that subsystem does not currently support the broadcasting of that parameter on the datalink you checked for it on. You may want to contact the subsystem manufacturer to see why they don't support the parameter in your subsystem model or if they can provide future software support for the parameter.
I have read erroneous data on the J1587 datalink with QuickCheck III for one of the QC Configurator temperature parameters, while the sensor involved was under cold ambient conditions.	• The QC Configurator and QuickCheck III applications are currently not capable of correctly interpreting negative temperatures from some J1587 temperature parameters available on the QC Configurator program. If you experience this problem, try reading these parameters on the J1939 datalink to get correct data.

Beaming Problems

I cannot beam the QC Configurator application to another organizer.	• The QC Configurator application is copy-protected and cannot be beamed.

If you encounter a problem with your QC Configurator or QUICKCHECK III product, please contact your local Cummins distributor only after you have reviewed the previous list of Frequently Asked Questions, the updated Frequently Asked Questions on the QuickCheck web site at http://quickcheck.cummins.com, and the Palm Handbook, including its list of Frequently Asked Questions. Information about your local Cummins distributor can be found at our web site: http://www.cummins.com.

Note: Cummins distributors are not able to provide support for Palm computing device platform issues. If you are having a problem with the Palm organizer, please review the Palm Handbook, then contact Palm Technical Support if necessary. The Handbook also includes a list of Frequently Asked Questions that should be reviewed.

GLOSSARY

Accel Ped Pos	the ratio of the current accelerator pedal position to the maximum position (in percentage)
Air Fltr Diff	the change in air system pressure measured after the air filter (in pounds per square inch or kiloPascals)
Air Inlet Temp	the temperature of air entering the vehicle air induction system (in degrees Fahrenheit or degrees Celsius)
Air Start Pres	the gage pressure of air in a compressed air engine starting system (in pounds per square inch or kiloPascals)
Alt Current	measure of electrical flow from the alternator (in amperes)
Alt Voltage	measured electrical potential of the alternator (in volts)
Amb Air Temp	the temperature of air surrounding the vehicle (in degrees Fahrenheit or degrees Celsius)
Aux Pump Pres	the gage pressure in the auxiliary water pump (in pounds per square inch or kiloPascals)
Barom Pres	the absolute air pressure of the atmosphere (in pounds per square inch or kiloPascals)
Batt Voltage	measured electrical potential of the battery electrical system (in volts)
Boost Pressure	the gage pressure of air discharged from the turbocharger (in pounds per square inch or kiloPascals)
Brake Pressure	the gage pressure of compressed air or fluid in the vehicle braking system (in pounds per square inch or kiloPascals)
Brakes	the braking subsystem of the vehicle or equipment
Br Primary Pres	the gage pressure of air in the primary or supply side of the air brake system (in pounds per square inch or kiloPascals)
Br Second Pres	the gage pressure of air in the secondary or service side of the air brake system (in pounds per square inch or kiloPascals)
Cab Temp	the temperature of air inside the driver and vehicle operating controls compartment (in degrees Fahrenheit or degrees Celsius)
Cargo Temp	the temperature of air inside the vehicle container used to accommodate cargo (in degrees Fahrenheit or degrees Celsius)
Clutch Pres	the gage pressure of oil within a wet clutch (in pounds per square inch or kiloPascals)
Coolant Level	the ratio of current engine cooling system liquid volume to total cooling system volume (in percentage)

Coolant Pres	the gage pressure of liquid in the engine cooling system (in pounds per square inch or kiloPascals)
Cool Fltr Diff	the change in coolant pressure measured after the filter (in pounds per square inch or kiloPascals)
Crankcase Pres	the gage air pressure inside the engine crankcase (in pounds per square inch or kiloPascals)
Cruise Set Spd	the velocity control system setting (in miles per hour or kilometers per hour)
Eng Cool Temp	the temperature of coolant in the engine cooling system (in degrees Fahrenheit or degrees Celsius)
Engine #1	the primary engine subsystem of the vehicle or equipment
Engine #2	the secondary engine subsystem of the vehicle or equipment
Eng Oil Level	the ratio of current engine sump oil volume to maximum required volume (in percentage)
Eng Oil Pres	gage pressure of oil in the engine lubricating system (in pounds per square inch or kiloPascals)
Eng Oil Temp	the temperature of engine lubricant (in degrees Fahrenheit or degrees Celsius)
Engine Speed	the rotational velocity of the crankshaft (in revolutions per minute)
Exh Gas Temp	the temperature of combustion byproducts leaving the engine (in degrees Fahrenheit or degrees Celsius)
Fuel Fltr Diff	the change in fuel delivery pressure measured across the filter (in pounds per square inch or kiloPascals)
Fuel Level	the ratio of current fuel volume to the total volume of the primary fuel storage container (in percentage)
Fuel Pressure	the gage pressure of fuel delivered from the supply pump (in pounds per square inch or kiloPascals)
Fuel Rate	the amount of fuel the engine consumes per unit of time (in gallons per hour or liters per hour)
Fuel Temp	the temperature of fuel entering the injectors (in degrees Fahrenheit or degrees Celsius)
handheld organizer handheld device handheld organizer	Palm computing devices for QUICKCHECK III datalink reader: Palm M500™, M505™, M515™, I705™, and Tungsten T™
HotSync Manager®	Palm computing device synchronization technology control software
HotSync® process	Palm computing device synchronization technology

Idle Eng Spd	the minimum non-transient rotational velocity of the crankshaft during engine idle (in revolutions per minute)
Inj Met Pres	the gage pressure of fuel in the metering rail (in pounds per square inch or kiloPascals)
Inj Tim Pres	the gage pressure of fuel in the timing rail (in pounds per square inch or kiloPascals)
INSITE™	another Cummins Inc. service tool
Inst Fuel Econ	indicates fuel usage per unit volume at current vehicle velocity (in miles per gallon or kilometers per liter)
Intake Manifold	the temperature of pre-combustion air supplied to the intake manifold (in degrees Fahrenheit or degrees Celsius)
Intercool Temp	the temperature of liquid found in the engine intercooler (in degrees Fahrenheit or degrees Celsius)
J1587	a low-speed SAE-defined message format used on a J1708 interface
J1708	the SAE-defined hardware interface for J1587 (and J1922) messages
J1939	a high-speed, SAE-defined, CAN 2.0B based messaging format
Max Road Spd	the maximum vehicle velocity limit (in miles per hour or kilometers per hour)
Oil Fltr Diff	the change in engine oil pressure measured after the oil filter (in pounds per square inch or kiloPascals)
Out Shaft Spd	the rotational velocity of shaft transferring force from the transmission to the driveshaft (in revolutions per minute)
Output Torque	the amount of torque available at the engine flywheel (in foot-pounds of force)
% Engine Load	the ratio of the current load of the engine to the maximum rated load (in percentage)
PTO Oil Temp	the temperature of lubricant in the power takeoff device (in degrees Fahrenheit or degrees Celsius)
QUICKCHECK™ III Adapter	Cummins Inc. datalink reader
Rated Eng Pwr	the net brake power that the engine will deliver continuously at a rated speed (in horsepower or kiloWatts)
Road Speed	indicated vehicle velocity (in miles per hour or kilometers per hour)
SAE	Society of Automotive Engineers, the organization that establishes on-road and off-road motor vehicle standards

Saving…Please Wait	indicates that data is being stored in a new configuration list file and the QuickCheck III databases are being updated with the new configuration
Software ID	the software identifier of an ECM
Throttle Pos	the position of the valve used to regulate the supply of a fuel/air mixture to the engine (in percentage)
Total Eng Hrs	accumulated time of operation of the engine (in hours)
Total Fuel Used	accumulated amount of fuel used during vehicle operation (in gallons or liters)
Total Idle Fuel	accumulated amount of fuel used during vehicle operation while idling (in gallons or liters)
Total Idle Hrs	accumulated time of operation of the engine while idling (in hours)
Total PTO Hrs	accumulated time of operation of the power takeoff device (in hours)
Total Veh Dist	accumulated distance traveled by the vehicle during operation (in miles or kilometers)
Trans.	the primary transmission subsystem of the vehicle or equipment
Trans Fltr Diff	the change in transmission fluid pressure measured after the filter (in pounds per square inch or kiloPascals)
Trans Oil Level	the ratio of current transmission sump oil volume to the required volume (in percentage)
Trans Oil Pres	the gage pressure of lubrication fluid in the transmission (in pounds per square inch or kiloPascals)
Trans Oil Temp	the temperature of transmission lubricant (in degrees Fahrenheit or degrees Celsius)
Trans Range At	the transmission range commanded by the transmission control system (in gear designation)
Trans Range Se	the transmission range selected by the operator (in gear designation)
Trap Inlet Pres	the exhaust back pressure as a result of particle accumulation on the filter placed in the exhaust stream (in pounds per square inch or kiloPascals)
Turbo Oil Pres	the gage pressure of oil in the turbocharger lubrication system (in pounds per square inch or kiloPascals)
Turbo Oil Temp	the temperature of the turbocharger lubricant (in degrees Fahrenheit or degrees Celsius)
Turbo Speed	the rotational velocity of the turbocharger rotor (in revolutions per minute)

Veh. Comp.	the vehicle management computer subsystem of the vehicle or equipment
VIN	vehicle identification number assigned by the vehicle manufacturer
Washer Level	the ratio of current washer fluid volume to total container volume (in percentage)
Wet Tank Pres	the current gage pressure inside the vehicle wet (pneumatic supply) tank (in pounds per square inch or kiloPascals)

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